

# Graphs, mechanisms and scheduling

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**Stellingen**  
behorende bij het proefschrift  
“Graphs, Mechanisms and Scheduling”  
door  
Birgit Heydenreich

1. The strength of Theorem 2.11 is to a large extent due to the fact that it characterizes revenue equivalence in terms of valuation functions, type spaces *and* the allocation rule and therefore applies in situations where not all allocation rules satisfy revenue equivalence. (Chapter 2)
2. Revenue maximization and efficiency are in general conflicting objectives. (Chapter 3)
3. For the strategic machine scheduling setting, finding the optimal mechanism for 2-dimensional type spaces is substantially more complicated than for 1-dimensional type spaces. (Chapter 3)
4. In online situations, it can be rational to decide myopically. (Chapter 5)
5. A theorem can be easy to apply, although its hypothesis consists of infinitely many conditions.
6. Negative results should be seen more positively.
7. Mechanism design is more than just auctions.
8. Mathematicians look today for solutions to problems that people will only have tomorrow. Sometimes, they are quite successful at it.
9. Interdisciplinary research and living in a foreign country have much in common: one has to speak multiple languages at the same time and has to integrate into different cultures.
10. Omdat het bijvoegen van stellingen aan een proefschrift een Nederlandse traditie is, zou tenminste een van de stellingen in het Nederlands moeten zijn.

Maastricht, January 2009